**1. Create a MariaDB Engine based RDS Database**

1. **Log in to AWS Management Console:**
   * Navigate to the RDS service.
2. **Create a New Database:**
   * Click on "Create database."
   * Under "Engine options," select **MariaDB**.
   * Choose the desired version.
   * In "Templates," select **Production** or **Dev/Test** depending on your needs.
   * Configure the **DB Instance Class**, **Storage**, and other settings.
   * Set up the **Master username** and **password**.
   * In the "Connectivity" section, select the VPC and configure other networking options.
   * If needed, enable Public Accessibility to allow access from outside the VPC.
3. **Additional Configuration:**
   * Set up additional configurations like Backup, Monitoring, and Maintenance settings.
   * Review your settings and click "Create database."

**2. Connect to the RDS Database**

**a. SQL Client for Windows**

1. **Install a SQL Client:**
   * Download and install a SQL client like **HeidiSQL**, **DBeaver**, or **MySQL Workbench**.
2. **Connect to the Database:**
   * Open the SQL client and create a new connection.
   * Enter the **Endpoint** (found in the RDS console under your DB instance details) as the Host.
   * Enter the **Port** (default is 3306).
   * Use the **Master username** and **password** you set during the RDS creation.
   * Click **Connect**.

**b. Linux-based EC2 Instance**

1. **Launch an EC2 Instance:**
   * Go to the EC2 dashboard and launch a new Linux instance (e.g., Amazon Linux 2).
2. **Install MariaDB Client:**
   * SSH into the EC2 instance.
   * Install the MariaDB client using the following command:

bash

Copy code

sudo yum install mariadb -y

1. **Connect to the RDS Database:**
   * Use the MariaDB client to connect to your RDS instance:

bash

Copy code

mysql -h <RDS\_Endpoint> -u <Master\_Username> -p

* + Enter the password when prompted.